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a means for sensing a fluid flow disposed within the fluid communication flow path between the heat exchanger and the heat exchange surface;

a means for sensing a fluid temperature disposed within the fluid communication flow path between the heat exchanger and the heat exchange surface; and

a means for pumping a fluid flow disposed within the fluid communication flow path between the heat exchanger and the heat exchange surface.

15. The heating system of claim 14, further comprising a controller in electronic communication with at least the means for sensing a fluid flow.

16. The heating system of claim 14, further comprising a controller in electronic communication with at least the means for sensing a fluid temperature.

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17. The heating system of claim 14, further comprising a controller in electronic communication with at least the means for pumping a fluid flow.

18. The heating system of claim 14, wherein the heating chamber is in ambient controlled communication with a plurality of chambers for carrying out plasma etching.

19. The heating system of claim 18, further comprising a means for remotely transferring a process wafer under controlled ambient conditions between the plurality of chambers including the heating chamber.

20. The heating system of claim 19, wherein the plurality of chambers for carrying out plasma etching includes an unloading chamber for accepting transfer under controlled ambient conditions of the process wafer following a treatment in the heating chamber.